

£600 PCs

PERFECT PCs

Fancy a computer with a powerful processor, 19in widescreen monitor, generous RAM and Windows Vista? If you have just £600 going spare, it's all yours. We test six seriously tempting bargain systems



INTRODUCTION

Anyone looking to buy a new PC is sure to benefit from recent processor price cuts. As you'll see from this month's *Labs*, £600 is all you need to spend to get a computer with an incredibly powerful processor that is capable of dealing with even the most difficult tasks.

We were also pleasantly surprised at the high-quality components in the six systems that we received for this *Labs*. They all have plenty of room for expansion, 19in widescreen monitors and at least 2GB of RAM. All but one come with Windows Vista Home Premium, which means you get a lot of PC for a low price.

If you're fed up of your old beige box struggling to run new applications, now is the best time to replace it. Whatever it is you are looking for in a PC, you're sure to find something in this month's *Labs* to suit your needs and wallet.

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Choosing a...
£600 PC

A £600 PC will happily cope with most jobs that you can throw at it. However, you won't get all the accessories you'd get with a more expensive computer. Before you buy, therefore, think about what you want your new PC to do, so you can choose the right components for your needs.

HOME COMFORTS

All but one of the PCs in this round-up come with Windows Vista Home Premium. This is a good choice for a home PC, as it includes Media Center. Using this application and a cheap TV tuner, you can turn your PC into a personal video recorder (PVR) and browse your pictures, music and videos through a friendly interface.

Gladiator's Trojan is the only PC to come with Windows Vista Business. While this adds extra tools, such as backup and the ability to control your PC remotely, it lacks Media Center. If Vista doesn't appeal, RL Supplies also offers its PC with Windows XP Home Edition installed instead.

All the PCs here have dedicated graphics cards, but only CyberPower's Gamer Ultra 650 has a powerful GeForce 8800GTS to cope with games at high-detail settings and resolutions. The other PCs couldn't run our Call of Duty 2 test at a smooth 25 frames per second

(fps) or more. These computers are capable of playing games, but you'll need to reduce detail settings and turn off extras such as anti-aliasing to get smooth frame rates. This is fine for occasional gaming, but if you play games regularly then you will want to choose the fastest card possible.

A dedicated graphics card isn't just useful for games, though. It will also enable your computer to play HD footage. All the graphics cards in this group are HDCP compatible, so you can add a Blu-ray or HD DVD drive at a later date to watch films. Our table tells you which PCs have HDMI outputs, so you can connect them directly to your TV.

ENJOY THE VIEW

All the PCs here have 19in widescreen monitors with native resolutions of 1,440x900. The widescreen aspect ratios are great for watching movies, and the extra width is also good for Windows Vista, allowing you to fit the Sidebar easily down the side of the screen.

All the monitors have digital inputs, which help you get the best possible picture from your PC. However, the quality varies massively and some have trouble displaying a sharp image. Our reviews will tell you which display the best picture.



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Dual-core processors are commonplace, and every PC here has one. Don't get confused by the statistics, though, as processor clock speed doesn't tell the whole story. CyberPower's Gamer Ultra and Gladiator's Trojan are the only PCs to use AMD processors. While they have some of the highest clock speeds, they're consistently the worst performers here. That's not to say they can't cope with video editing and other demanding applications, but they'll do the job slower. The other four PCs have Intel processors, and three have the brand-new and incredibly fast Core 2 Duo E6750. RL Supplies' PC uses an older Core 2 Duo E4500 processor, but it's overclocked (see 'The need for speed' right), which makes it the fastest performer here.

All but one of the PCs have 2GB of RAM, which is plenty for Vista. Gladiator's PC has 4GB of RAM, the maximum that the 32-bit version of Vista can support. Our table tells you which PCs have room for more memory.

DEEP SPACE

Storage space is very important. Three of the PCs here come with 250GB hard disks, which should be plenty for most people. If you want to edit video, store lots of digital photos and keep a collection of music, though, this space can soon get filled up. Two of the PCs have 320GB hard disks, which gives more space, and Gladiator's PC has a massive 500GB hard disk.

The need for speed Overclocking a processor

Overclocking a processor means running it at a faster speed than it is rated to run at, and consequently you get a faster PC without having to pay for one.

It's quite easy to understand the techniques used. A processor's speed is derived from its external bus speed multiplied by its multiplier. For example, the Core 2 Duo E6750 has an external bus speed of 333MHz and a multiplier of 8x. Multiply the two together and you get the processor's 2.66GHz clock speed. While Intel processors have different external bus speeds, all of AMD's processors have an external bus of 200MHz.

This gives us two ways of overclocking: we can change the processor's multiplier or we can change the external bus. Changing the multiplier is the easiest way to overclock, as this affects only the processor's speed. Changing the external bus can also affect the speed at which other components work, such as memory.

However, to prevent people getting more performance for nothing, most processors have a multiplier lock that prevents the multiplier being increased. Some rare processors, such as the Athlon 64 X2 5000+

Black Edition as used in CyberPower's Gamer Ultra 650, are designed for enthusiasts and have unlocked multipliers. In this case, CyberPower has changed its processor's multiplier from 13x to 15.5x, increasing the clock speed from 2.6GHz to 3.1GHz.

For processors that are multiplier-locked, the only one way to increase the speed is to increase the external bus speed. This is what RL Supplies has done with its Modula 4300 OC, upping the external bus from 200MHz to 272MHz. With the processor's 11x multiplier, this increases its speed from 2.2GHz to 3GHz.

The problem with overclocking the external bus is that other components, particularly memory, derive their speeds from the same bus. Overclocking can therefore affect the whole PC, which can cause stability problems.

HEAT UP

In both forms of overclocking, the processor generates more heat than it would at its rated speed, which can reduce its lifespan and cause instability. For these reasons, overclocked components usually have large fans and heatsinks attached to them.



CYBERPOWER Gamer Ultra 650

★★★★★

£600 inc VAT

From www.cyberpowersystem.co.uk

CyberPower's Gamer Ultra 650 is incredibly quick for games, but its Windows performance is less impressive.

FEATURES

PCs aimed at gamers often have a space-age look, and the Gamer Ultra 650 is no exception. The attractive case hides the front two USB2 ports, DVD writer and on switch behind a black door. This is the quietest PC in the group.

The 250GB hard disk should give enough storage for most users. There's no memory card reader, but if you want to fit one or add a second hard disk, there's lots of room inside. The expansion bays have clips rather than screws, so installing extra drives is very simple.

The 19in widescreen display has a native resolution of 1,440x900 and is evenly lit, with crisp colours. It's great for games and Windows Vista alike. The Logitech 2.1 speakers do a great job and don't require miles of cables and complex positioning. They are better than many more expensive speakers we've reviewed.

The Logitech keyboard and mouse are good for this price, but they're basic. The keyboard's not that comfortable to type on for long periods.

PERFORMANCE

The 320MB EVGA 8800 GTS graphics card is the fastest here. Its score of 54.3fps in our Call of Duty 2 test shows it can cope with modern games at high detail settings. CyberPower has fitted the Black Edition of AMD's Athlon 64 X2 5000+, which can be overclocked by increasing the processor's multiplier setting. Even running at 3.1GHz, however, this PC couldn't compete with the Intel-based PCs and scored the second-lowest overall score in our 2D tests.

VERDICT

It's rare to find such a powerful graphics card in a £600 PC, so if you're intending to play games this PC is ideal. You'll need a more suitable mouse for gaming, but this is a good place for the new gamer to start.

SUMMARY

- ✓ Great for gaming
- ✓ Very quiet
- ✗ Relatively slow Windows performance

DESKTOP PC AMD Athlon 64 X2 5000+ Black Edition, 2GB RAM, 250GB hard disk, 320MB EVGA e-GeForce 8800 GTS (320-P2-811), DVD+/-RW DL, 19in widescreen LCD
PART CODE Gamer Ultra 650
DETAILS www.cyberpowersystem.co.uk



ECLIPSE Eclipse Mystique i675n86GTS

★★★

£600 inc VAT

From www.eclipsecomputers.com

Eclipse's Mystique i675n86GTS isn't the most exciting PC to look at, but it's got a fast Core 2 Duo processor and a flexible monitor.

FEATURES

Eclipse's chassis looks a little cheap and the fans produced an irritating whine. Replacing some of them with quieter models should alleviate this problem, though.

The motherboard uses a tweaked version of Intel's 945G chipset to support newer 1,333MHz frontside bus (FSB) processors such as the installed Core 2 Duo E6750. Performance didn't suffer, and the cheap cost of this board meant Eclipse had more to spend elsewhere.

The Hannspree 19in widescreen monitor is one area where more money has been spent. It's the only screen here that swivels. The screen is evenly lit and the Windows desktop looked great, but our greyscale test revealed a pink tinge and obvious banding. We'd rather lose the swivel function in favour of better image quality. The monitor has built-in speakers, but they're not very good. There's no bass and heavy distortion when the volume is turned up more than half way.

PERFORMANCE

The Core 2 Duo E6750 is a stunning processor, and proved its worth in our 2D tests, with the i675n86GTS coming second overall. The Nvidia 8600GTS isn't a bad graphics card, but the Call of Duty 2 score of 22.3fps means you'll need to turn off anti-aliasing in order to play modern games smoothly.

VERDICT

The Mystique i675n86GTS isn't a bad PC, and its great overall score in our 2D benchmarks shows that it can cope with any task you throw at it. But it's not as quick in Windows as RL Supplies' Modula 4300C, doesn't have the gaming performance of CyberPower's Gamer Ultra 650 and has a disappointing monitor.

SUMMARY

- ✓ Good performance
- ✗ Noisy
- ✗ Poor monitor

DESKTOP PC Intel Core 2 Duo E6750, 2GB RAM, 250GB hard disk, 256MB Nvidia GeForce 8600GTS, DVD+/-RW DL, 19in widescreen LCD
PART CODE Eclipse Mystique i675n86GTS
DETAILS www.eclipsecomputers.com



GLADIATOR Trojan sx6000

★★★

£574 inc VAT

From www.gladiatorcomputers.com

The cheapest PC here, Gladiator's Trojan CS6000 has the most RAM and the largest hard disk.

FEATURES

Although it costs £26 less than the other PCs here, the Trojan has the biggest hard disk. The 500GB Samsung hd501LJ has 180GB more storage space than its nearest competitor. No matter how big a media collection you've got, there's plenty of storage space.

The 4GB of memory is twice that of any other PC here, giving Windows Vista plenty of breathing room. Complex applications such as video-editing suites will have more than enough memory. It's a shame Vista Business is installed rather than Home Premium. The biggest loss is Windows Media Center, which means that you can't browse a giant media collection through a friendly interface or turn this PC into a PVR by adding a cheap TV tuner.

The Trojan is the loudest PC here, and the constant noise is distracting in a quiet room.

The Hyundai 19in widescreen LCD is a good monitor, producing bright colours with an even backlight. Its speakers are tinny and lack bass, though, so we'd recommend upgrading them if you want to play games or listen to music.

PERFORMANCE

The Athlon 64 X2 6000+ processor, one of only two AMD processors here, is the worst of the group. The Trojan turned out the worst overall 2D score in our performance tests. This is the only PC here to use an ATI-based graphics card, a 2600XT, and scored the lowest in our games benchmarks with 26.8fps in Prey and 20.4fps in Call of Duty 2. You'll need to turn down detail settings to get smooth gaming, particularly with newer, more demanding titles.

VERDICT

The Trojan CS6000 isn't very well balanced. The 500GB hard disk and 4GB of RAM are impressive specifications, but we'd rather have lower capacities and a faster processor than the Athlon 64 X2 6000+.

SUMMARY

- ✓ Large hard disk; 4GB RAM
- ✗ Very noisy; poor games performance
- ✗ Relatively slow Windows performance

DESKTOP PC AMD Athlon 64 X2 6000+, 4GB RAM, 500GB hard disk, 256MB ATI HD2600XT, DVD+/-RW DL, 19in widescreen LCD
PART CODE PCSTROCS6000P
DETAILS www.gladiatorcomputers.com



MESH Elite E6750 CSX



£600 inc VAT
From www.meshcomputers.com

Mesh's Elite E6750 CSX has a fast Core 2 Duo processor, but its graphics card is slow.

FEATURES

Mesh's Elite E6750 isn't a bad PC, but the company hasn't done anything to make it stand out. PC Nextday and Eclipse managed to supply a Core 2 Duo E6750 processor and an Nvidia GeForce 8600GTS. Mesh uses the same processor, but has downgraded the graphics card to a 8600GT.

The 250GB hard disk is the smallest here, alongside those in the CyberPower and Eclipse PCs. It's large enough for most storage needs, but this is not a compelling reason to buy.

The 19in widescreen monitor with its native resolution of 1,440x900 is the same size as the others in the round-up. Mesh has chosen a decent model that produced an evenly lit image, with accurate colours and no banding. Closer inspection showed minor speckling, but nothing serious.

The chassis is plain and plastic, so it looks a little on the cheap side. The on switch doesn't push in evenly, making it feel fragile. A wireless keyboard and mouse are provided for input, and are very good. The mouse is responsive and the keyboard is a joy to type on.

Logitech's S220 2.1 speakers are a great choice and produce excellent sound.

PERFORMANCE

The Elite lagged behind the other two PCs with the same processor in our 2D tests. Games performance was worse. The Nvidia GeForce 8600GT turned out the joint-slowest games results, with 20.4fps in Call of Duty 2.

VERDICT

Mesh's choice of processor is great, but while other manufacturers have managed to use the same model and install a fast GeForce 8600GTS graphics card, the Elite uses the slower 8600GT, so it isn't as good value. With nothing else to make the Elite stand out here, there are better PCs to choose.

SUMMARY

- ✓ Decent monitor
- ✗ Poor games performance
- ✗ Relatively slow Windows performance

DESKTOP PC Intel Core 2 Duo E6750, 2GB RAM, 250GB hard disk, 256MB Nvidia GeForce 8600 GT, DVD+/-RW DL, 19in widescreen LCD
PART CODE Elite E6750 CSX
DETAILS www.meshcomputers.com



PC NEXTDAY Zoostorm 4-3423



£600 inc VAT
From www.pcnextday.co.uk

A strong performer in Windows and games, PC Nextday's Zoostorm 4-3423 is a good all-rounder.

FEATURES

The Zoostorm 4-3423 looks great on paper. It's got a quick Core 2 Duo E6750 processor, 2GB of RAM and an Nvidia GeForce 8600GTS graphics card. The 320GB hard disk is generous, beaten in capacity only by Gladiator's Trojan. This provides plenty of room for media files.

The 19in widescreen monitor with its resolution of 1,440x900 is the same size as the others in the group, but it's not very good. While the screen was evenly lit, the picture looked blurred, so the text could be hard to read. We could not correct this using the monitor's or graphics card's settings. The Microsoft keyboard is also disappointing. The keys are well spaced out, but there's little feedback, so typing for long periods will be uncomfortable.

We've got no such complaints about Logitech's S220 2.1 speakers. These are the same set as with Mesh's and CyberPower's PCs, and produce a loud, well-defined sound that is better than many sets costing twice as much. This is the second-quietest PC here after CyberPower's Gamer Ultra 650.

PERFORMANCE

The Zoostorm 4-3423 performed well in most of our tests, coming third overall, just one point behind Eclipse's Mystique. It came second from last in our multitasking test, though. Graphics performance was similar to the other PCs with a GeForce 8600GTS, with a score of 22.8fps in our Call of Duty 2 test. To get smoother gaming, you'll need to turn off anti-aliasing.

VERDICT

This is a quick PC with a large hard disk, but the blurry monitor and uncomfortable keyboard make it slightly unpleasant to use. RL Supplies' Modula 4300 OC has better peripherals and slightly better performance.

SUMMARY

- ✓ Good performance
- ✓ Quiet
- ✗ Poor-quality monitor

DESKTOP PC Intel Core 2 Duo E6750, 2GB RAM, 320GB hard disk, 256MB Nvidia GeForce 8600GTS, DVD+/-RW DL, 19in widescreen LCD
PART CODE 3364-3423
DETAILS www.pcnextday.co.uk



RL SUPPLIES Modula 4300OC



£600 inc VAT
From www.rlsupplies.co.uk



With an overclocked processor, RL Supplies' Modula 4300OC delivered the best 2D performance here.

FEATURES

The Core 2 Duo E4500 processor doesn't sound very exciting, until you realise it's been overclocked. Rather than running with its standard FSB speed of 800MHz, it has been overclocked to run at 1,092MHz. The E4500's multiplier of 11x means this processor runs at a stunning 3GHz – the fastest clock speed here.

The Asus VW193S is the best monitor in the group. It's a 19in widescreen model with a resolution of 1,440x900, like the other models in this Labs, but it produced a brilliant image with even backlighting. Our greyscale test produced smooth transitions from black to white, while colours were accurate and vibrant.

It's ideal for using Windows Vista Home Premium and its sidebar, but if you don't want to use the new operating system, RL Supplies can install Windows XP Home Edition. Make sure you request this option when you order.

The 2GB of RAM and GeForce 8600GTS are excellent choices. There is also a 320GB hard disk, which is more than enough room for most media collections.

PERFORMANCE

The processor's high clock speed translated into excellent performance. It was fastest overall in our 2D benchmark tests, and in the top three in all our 2D tests. While the 8600GTS graphics card couldn't compete with CyberPower's graphics card, a frame rate of 24.5fps in Call of Duty 2 is still good. If you turn off anti-aliasing, you'll get even better results and be able to play newer games.

VERDICT

The Modula 4300OC has the best monitor here. The overclocked processor screamed through our tests and delivered the best 2D performance. With a two-year warranty for peace of mind, this is easily the best PC here.

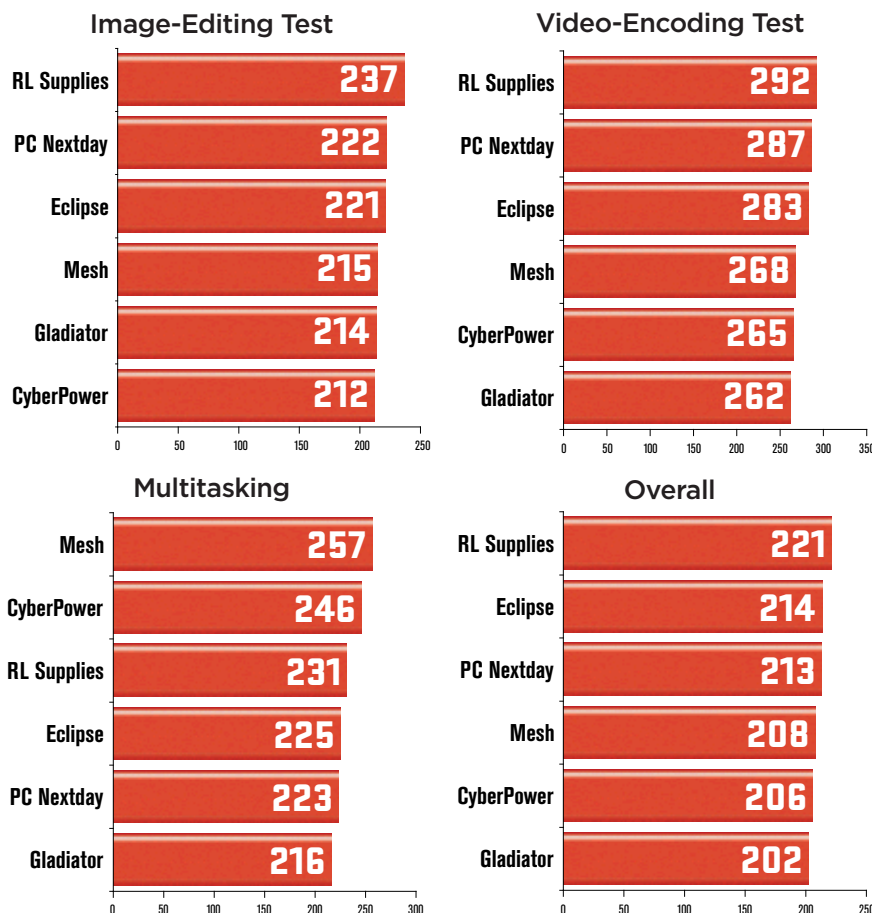
SUMMARY

- ✓ Good performance
- ✓ Excellent monitor
- ✓ Available with Windows XP Home Edition

DESKTOP PC Intel Core 2 Duo E4500, 2GB RAM, 320GB hard disk, 256MB Nvidia GeForce 8600GTS, DVD+/-RW DL, 19in widescreen LCD
PART CODE SYSMOD4300OC
DETAILS www.rlsupplies.co.uk

BENCHMARKS

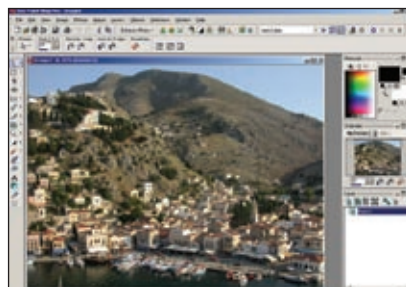
2D Performance Shopper Application Tests



Computer Shopper's 2D benchmarks have been designed to show how PCs stand up to the toughest tasks Windows can throw at them. Today's PCs have no problem running office applications such as Word and Excel, so we have chosen to focus our tests on areas where you could experience difficulties.

Encoding a short video to MPEG2 format is a processor-intensive task that anyone transferring home videos to DVD will have to tackle. Our image-editing test simulates a session of photo enhancement using Paint Shop Pro X. In our third test, a set of audio files is ripped to MP3 format.

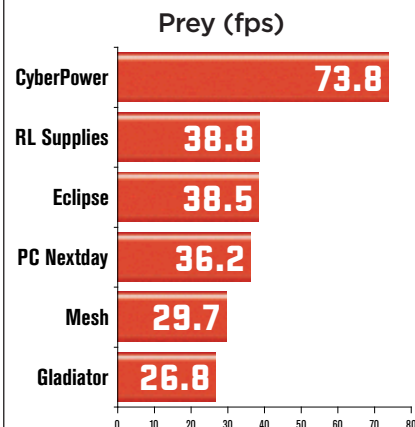
Finally, we have a multitasking test designed to test the benefits of Hyper-Threaded and dual-core processors. This test compresses a DVD at the same time as running our



SETTINGS We run our application tests at 1,280x1,024 resolution and in 32-bit colour
WEB www.computershopper.co.uk

image-editing test. Figures are relative to a reference Evesham Athlon 64 3500+, which scores 100 in all tests.

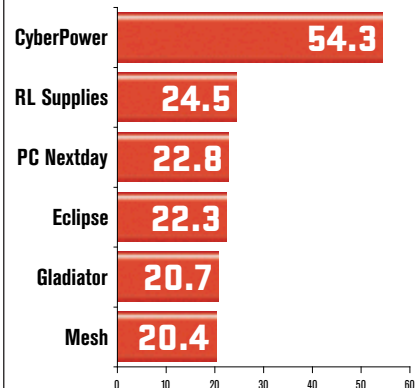
3D Performance Games



SETTINGS 1,280x1,024 resolution, high shader detail, 4x AA
WEB www.prey.com

Our Prey benchmark tests whether a PC has the power needed to play cutting-edge 3D games. A good score here indicates that a PC should cope with graphically intense 3D games.

Call of Duty 2 (fps)



SETTINGS 1,280x1,024 resolution, 32-bit colour, default settings
WEB www.futuremark.com

Call of Duty 2 uses DirectX and is one of the most demanding games available. With a wide range of effects and frenetic action, it tests every aspect of graphics performance.

Labs verdict £600 PCs

All the PCs here pack in fast dual-core processors, and are capable of playing games to some degree. They all come with widescreen monitors, great for watching films, playing games and using Vista.

However, two PCs have that bit extra. CyberPower's Ultra Gamer 650 is the clear winner for gaming. Its 320MB GeForce 8800 GTS graphics card is leagues ahead of the rest, and you'll be able to play modern games

at high detail settings and resolutions. The overclocked processor is fine for any job, but the Ultra Gamer came near the bottom of our 2D tests. There are better PCs if you are mainly interested in Windows applications.

Our Best Buy is RL Supplies' Modula 4300 OC. Its overclocked Core 2 Duo E4500 processor stormed through our 2D benchmarks and it comfortably outperformed every other PC. Gaming is possible, too, thanks to the



RL SUPPLIES
Modula
4300OC



GeForce 8600GTS graphics card, although you'll probably need to reduce detail settings to get the smoothest gameplay. With the best monitor as well, this is the best PC here.

MANUFACTURER	CYBERPOWER	ECLIPSE	GLADIATOR	MESH	PC NEXTDAY	RL SUPPLIES
Model	Gamer Ultra 650	Eclipse Mystique i675n86GTS	Trojan sx6000	Elite E6750 CSX	Zoostorm 4-3423	Modula 4300OC
Rating	★★★★★	★★★	★★★	★★★	★★★	★★★★★
Processor	AMD Athlon 64 X2 5000+ Black Edition	Intel Core 2 Duo E6750	AMD Athlon 64 X2 6000+	Intel Core 2 Duo E6750	Intel Core 2 Duo E6750	Intel Core 2 Duo E4500
Processor external bus	200MHz (1,000MHz HyperTransport)	333MHz (1,333MHz Quad-pumped)	200MHz (1,000MHz HyperTransport)	333MHz (1,333MHz Quad-pumped)	333MHz (1333MHz Quad-pumped)	273MHz (1092MHz Quad-pumped)
Processor multiplier	15.5x	8x	15x	8x	8x	11x
Processor speed	3.1GHz	2.66GHz	3GHz	2.66GHz	2.66GHz	3GHz
Processor socket	Socket AM2	LGA775	Socket AM2	LGA775	LGA775	LGA775
Level I cache	128KB	128KB	256KB	128KB	128KB	64KB
Level II cache	1024KB	4096KB	2048KB	4096KB	4096KB	2048KB
Memory installed	2GB	2GB	4GB	2GB	2GB	2GB
Memory type (speed)	PC2-6400	PC2-5300	PC2-6400	PC2-5300	PC2-5300	PC2-5300
Maximum memory	8GB	4GB	8GB	4GB	8GB	16GB
Motherboard	Asus M2N-Sli Deluxe	ASRock ConRoe 1333-DVI/H	AMD RS-690-SB600	Asus P5N-E SLI	Foxconn P35A01	Asus P5ND2 SE
Motherboard chipset	Nvidia nForce 570 SLI	Intel 945G/945GC A2 + ICH7	AMD 690G + ATI SB600	Nvidia 650i	Intel P35 + ICH9	Nvidia nForce4 SLI Intel Edition
Bios type	Phoenix	AMI	Phoenix	Phoenix	AMI	Phoenix
PORTS						
USB2 ports (front/rear)	2/4	3/4	0/4	3/4	2/4	1/4
FireWire ports (front/rear)	0/1	0/0	0/0	1/1	0/0	0/0
Networking	10/100/1,000	10/100/1,000	10/100/1,000	10/100/1,000	10/100/1,000	10/100/1,000
Legacy ports	Serial	Serial, parallel	None	Serial	Serial, parallel	Serial, parallel
Other ports	ESATA	None	None	ESATA, S/PDIF	ESATA	Optical S/PDIF
INTERNAL EXPANSION						
Case	Midi tower	Midi tower	Midi tower	Midi tower	Midi tower	Midi tower
Case size (HxWxD)	445x212x508mm	430x189x445mm	412x170x460mm	410x190x475mm	430x189x490mm	418x180x451mm
PCI (free)	3 (3)	2 (2)	2 (1)	2 (1)	3 (3)	2 (2)
PCI-E x1 (free)	2 (1)	1 (1)	0 (0)	1 (1)	1 (1)	1 (1)
PCI-E x16 (free)	2 (1)	1 (0)	1 (0)	1 (0)	2 (1)	1 (0)
Serial ATA (free)	6 (5)	4 (3)	4 (2)	4 (2)	4 (3)	4 (3)
Memory (free)	4 (2)	4 (2)	4 (0)	4 (2)	4 (2)	4 (2)
Drive bays 3½in (free)	3 (2)	5 (4)	5 (4)	5 (4)	5 (4)	6 (5)
Drive bays 5¼in (free)	6 (5)	4 (3)	3 (3)	4 (3)	4 (2)	4 (3)
HARD DISK						
Model	Western Digital Caviar (WD2500AAKS)	Maxtor Diamondmax 21 (STM3250310AS)	Samsung hd501LJ	Samsung SP2504	Hitachi Deskstar T7K500 (HDT725032VLA)	Seagate Barracuda (ST3320620SV)
Interface	SATA 300	SATA 300	SATA 300	SATA 300	SATA 300	SATA 300
Capacity (formatted)	250GB (209GB)	250GB (232GB)	500GB (465GB)	250GB (232GB)	320GB (298GB)	320GB (298GB)
Spin speed	7,200rpm	7,200rpm	7,200rpm	7,200rpm	7,200rpm	7,200rpm
GRAPHICS						
Graphics card	320MB EVGA e-GeForce 8800 GTS (320-P2-811)	256MB Nvidia GeForce 8600GTS	256MB ATI HD2600XT	256MB Nvidia GeForce 8600 GT	Nvidia GeForce 8600GTS	256MB Nvidia GeForce 8600GTS
Graphics chipset	Nvidia GeForce 8800GTS	Nvidia GeForce 8600GTS	ATI Radeon HD2600XT	Nvidia GeForce 8600GT	Nvidia GeForce 8600GTS	Nvidia GeForce 8600GTS
Graphics/video ports	DVI, S-video, component, composite	HDMI, DVI, D-sub	2x DVI (HDMI with adaptor)	2x DVI, S-video, component, composite	2x DVI, S-video, component, composite	2x DVI, S-video, component, composite
SOUND						
Sound card	SoundMax HD Audio	RealTek HD Audio	RealTek HD Audio	RealTek ALC883	RealTek HD Audio	SoundMax HD Audio
Sound card outputs	7.1 line out	7.1 line out	7.1 line out, optical S/PDIF out	7.1 line out, coaxial S/PDIF out	7.1 line out, coaxial S/PDIF out	7.1 line out, coaxial S/PDIF out
Speakers	Logitech S220 2.1	None	None	Logitech S220 2.1	Logitech S220 2.1	None
REMOVABLE DRIVES						
Floppy drive 3½in	No	Yes	No	No	No	No
Memory card reader	None	Secure Digital, MultiMedia Card, Memory Stick/Pro, Smart Media, xD	None	CompactFlash, Secure Digital, MultiMedia Card, Memory Stick/Pro, xD	CompactFlash, Secure Digital, MultiMedia Card, Memory Stick/Pro, Smart Media, MicroDrive, xD	CompactFlash, Secure Digital, MultiMedia Card, Memory Stick/Pro, Smart Media, MicroDrive, xD
Optical drive	Sony NEC AD-5170A (18X DVD+R, 18X DVD-R, 8X DVD+RW, 6X DVD-RW, 8X DVD+R DL, 8X DVD-R DL, 48X CD-R, 32X CD-RW, 16X DVD, 48X CD-ROM)	Sony NEC AD-5170A (18X DVD+R, 18X DVD-R, 8X DVD+RW, 6X DVD-RW, 8X DVD+R DL, 8X DVD-R DL, 48X CD-R, 32X CD-RW, 16X DVD, 48X CD-ROM)	Sony NEC AD-7170S (18X DVD+R, 18X DVD-R, 8X DVD+RW, 6X DVD-RW, 8X DVD+R DL, 8X DVD-R DL, 12X DVD-RAM, 48X CD-R, 32X CD-RW, 18X DVD-ROM, 48X CD-ROM), LiteOn LH-16D1P (16X DVD-ROM, 48X CD-ROM)	TSST SH-S203N (18X DVD+R, 18X DVD-R, 8X DVD+RW, 6X DVD-RW, 8X DVD+R DL, 8X DVD-R DL, 12X DVD-RAM, 48X CD-R, 32X CD-RW, 16X DVD-ROM, 48X CD-ROM)	Samsung SH-S203B (20X DVD+R, 20X DVD-R, 8X DVD+RW, 6X DVD-RW, 8X DVD+R DL, 8X DVD-R DL, 12X DVD-RAM, 48X CD-R, 32X CD-RW, 16X DVD-ROM, 48X CD-ROM)	TSST SH-S182D (18X DVD+R, 18X DVD-R, 8X DVD+RW, 6X DVD-RW, 8X DVD+R DL, 8X DVD-R DL, 12X DVD-RAM, 48X CD-R, 32X CD-RW, 16X DVD-ROM, 48X CD-ROM)
DISPLAY						
Size and technology	19in widescreen LCD	19in widescreen LCD	19in widescreen LCD	19in widescreen LCD	19in widescreen LCD	19in widescreen LCD
Model	Hanon H-340WDS	Hannsree M19W1	Hyundai Blue H H19W	GNRTS902W	AMW X1910W	Asus VW193S
Native resolution	1,440x900	1,440x900	1,440x900	1,440x900	1,440x900	1,440x900
Response time	5ms	5ms	5ms	5ms	5ms	5ms
Inputs	DVI, D-sub	DVI, D-sub, line in	DVI, D-sub	DVI, D-sub, line in	DVI, D-sub, line in	D-sub, line in
OTHER HARDWARE						
Modem	No	No	No	No	No	No
Keyboard	Logitech Value Keyboard	Microsoft Basic Keyboard 1.0A	Logitech Internet 350 Keyboard	Logitech Deluxe 660 Cordless	Microsoft Wireless Keyboard 3000 1.0	Microsoft Digital Media Keyboard 1.0A
Mouse	Logitech Optical Mouse	Microsoft Basic Optical Mouse 1.0A	Logitech Optical Mouse	Logitech Cordless Optical Mouse	Microsoft Wireless Optical Mouse 2.0A	Microsoft Basic Optical Mouse 1.0A
Keyboard/mouse rating	★★★★	★★★	★★★★	★★★★★	★★★	★★★★
Extras	None	None	None	None	None	None
SOFTWARE						
Software	MediaOne Gallery, WinDVD Creator Platinum 2.0, Disc Master 2.5 Platinum 2.5, DVD Copy 2.5 Platinum, DVD Copy 2.5 Platinum 2.5	None	None	Microsoft Works 8.5	None	Nero 7 Essentials, NOD32
Operating system	Windows Vista Home Premium	Windows Vista Home Premium	Windows Vista Business	Windows Vista Home Premium	Windows Vista Home Premium	Windows Vista Home Premium
Operating system restore option	Restore disc	Restore disc	Windows disc	Restore disc	Restore disc	Windows disc
BUYING INFORMATION						
Parts and labour warranty	Three years' RTB	One year RTB	One year collect and return	One year onsite	One year RTB	Two years' RTB
Technical support times	9am-5.30pm Mon-Fri	9.30am-5.30pm Mon-Fri	9am-5.30pm Mon-Fri	8am-8pm Mon-Fri, 10am-4pm Sat	9am-6pm Mon-Fri	10am-4pm Mon-Fri
Company founded	2005	1993	1999	1987	1993	1997
Technical support staff	3	7	3	60	25	4
Employees	16	Not disclosed	8	Not disclosed	Not disclosed	Not disclosed
Price including delivery (inc VAT)	£600	£600	£574	£600	£600	£600
Price including delivery (ex VAT)	£495	£495	£474	£495	£495	£495
Supplier	www.cyberpowersystem.co.uk	www.eclipscomputers.com	www.gladiatorcomputers.com	www.meshcomputers.com	www.pcnextday.co.uk	www.rlsupplies.co.uk
Details	www.cyberpowersystem.co.uk	www.eclipscomputers.com	www.gladiatorcomputers.com	www.meshcomputers.com	www.pcnextday.co.uk	www.rlsupplies.co.uk
Part code	GAMER ULTRA 650	ECLIPSE MYSTIQUE i675N86GTS	PCSTROCS6000P	ELITE E6750 CSX	3364-3423	SYSMOD4300OC